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添付公開書類:
— 国際調査報告書

2 文字コード及び他の略語については、定期発行される
各 PCT ガゼットの巻頭に掲載されている「コードと略語
のガイダンスノート」を参照。

(54) Title: METHOD OF DECOMPOSING PROTEIN WITH SULFONIC ACID COMPOUND

(54) 発明の名称: スルホン酸化合物を用いたタンパク質の分解方法

(57) Abstract: A method of assaying a saccharified protein in a sample with the use of oxidation-reduction reaction, in which highly reliable measurements can be obtained. A sample containing a saccharified protein is treated with protease in the presence of a sulfonic acid compound, so that the saccharified protein is decomposed. Saccharified portion of the resultant saccharified protein decomposition product is reacted with fructosylamino acid oxidase, and this oxidation-reduction reaction is measured, thereby determining the amount of saccharified protein. Sodium laurylsulfate can be used as the sulfonic acid compound.

(57) 要約: 試料中の糖化タンパク質を酸化還元反応を用いて測定する方法であって、信頼性に優れる測定値が得られる測定方法を提供する。糖化タンパク質を含む試料をスルホン酸化合物の存在下においてプロテアーゼ処理することによって、前記糖化タンパク質を分解し、得られた糖化タンパク質分解物の糖化部分とフルクトシルアミノ酸オキシダーゼとを反応させ、この酸化還元反応を測定することによって、前記糖化タンパク質の量を測定する。スルホン酸化合物としては、ラウリル硫酸ナトリウムが使用できる。

WO 2004/007760 A1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/05487

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ C12Q1/37, C12Q1/26, G01N33/50, G01N33/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ C12Q1/00-70, C12N9/00-99, G01N33/00-98, C12N9/00-99

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE (STN), WPI (DIALOG), BIOSIS (DIALOG)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X/Y	JP 09-512586 A (CHEMISCHE FABRIK DR. WEIGERT), 16 December, 1997 (16.12.97), & EP 730024 A1 & US 5810944 A & WO 96/26998 A1	1, 3, 6/ 2, 4, 5, 7-14
X/Y	JP 09-185021 A (Toray Industries, Inc.), 15 July, 1997 (15.07.97), (Family: none)	1, 3, 5, 6/ 2, 4, 7-14
X/Y	JP 09-503818 A (The Procter & Gamble Co.), 15 April, 1997 (15.04.97), & EP 723579 A1 & EP 723580 A1 & US 5677272 A	1, 3, 6/ 2, 4, 5, 7-14

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Date of the actual completion of the international search
30 June, 2003 (30.06.03)Date of mailing of the international search report
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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 10-210967 A (Ajinomoto Co., Inc.), 11 August, 1998 (11.08.98), (Family: none)	1-14
Y	JP 11-196897 A (Kyoto Daiichi Kagaku Co., Ltd.), 27 July, 1999 (27.07.99), (Family: none)	7-14